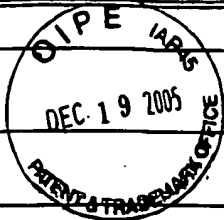
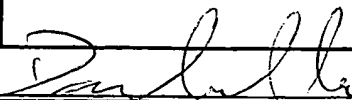


Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  Date Submitted to PTO: December 19, 2005				ATTY DOCKET NO. 2000_1422		SERIAL NO. 09/686,466	
				APPLICANT Mitsuaki OSHIMA et al.			
				FILING DATE October 12, 2000			
				GROUP 2634			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
D/H	AA	4,597,090	6-24-86	Forney, Jr.			
	AB	4,077,021	2-28-78	Csajka et al.			
	AC	<del>2005/0004750</del>	<del>4-21-05</del>	<del>Wang et al.</del>			
	AD	<del>2005/0058633</del>	<del>3-17-05</del>	<del>Epstein et al.</del>			
	AE	<del>2005/0022022</del>					
	AF	4,918,437	4-17-90	Jasinski et al.			
	AG	5,023,889	6-11-91	Divsalar et al.			
	AH	5,063,452	11-5-91	Higurashi			
	AI	5,124,852	6-23-92	Suwa et al.			
	AJ	5,136,380	8-4-92	Cho			
	AK	5,146,335	9-8-92	Kim et al.			
	AL	5,148,422	9-15-92	Sako et al.			
D/H	AM	5,218,436	6-8-93	Sugiyama et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
D/H	AN	2627574	7-21-04	CN			
	AO	1529838	5-11-05	EP			abstract
	AP	1499725	5-26-04	CN			only abstract
	AQ	2004-159207	6-3-04	JP			corresponds to AP
	AR	1528854	5-11-05	EP			only abstract
	AS	52118	12-16-02	UA			only abstract
	D/H	AT	1569334	1-26-05	CN		
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AU						
EXAMINER				DATE CONSIDERED 01/10/05			

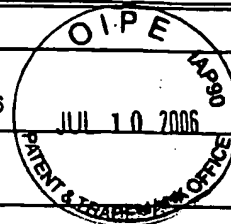
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

## INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
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Date Submitted to PTO: July 10, 2006

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Mitsuaki OSHIMA et al.FILING DATE  
October 12, 2000GROUP  
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/DH/	AA	4,267,592	5-12-81	Craiglow			
/DH/	AB	4,601,045	7-15-86	Lubarsky			
/DH/	AC	4,912,706	3-27-90	Eisenberg et al.			
/DH/	AD	4,914,655	4-3-90	Johannes et al.			
/DH/	AE	5,018,198	5-21-91	Takahashi			
/DH/	AF	4,003,002	1-11-77	Snijders et al.			
/DH/	AG	4,053,713	10-11-77	Nitadori			
	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AJ							
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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
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	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AJ							
	AK							
	AL							
	AM							
	AN							

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

DA	AO	J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14
DA	AP	B. Hirosaki, "An Orthogonally Multiplexed QAM System Using the Discrete Fourier Transform", IEEE Transactions on Communications, Vol. Com-29, No. 7, July 1981, pages 982-989
DA	AQ	L. J. Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing", IEEE Transactions on Communications, Vol. Com-33, No. 7, July 1985, pages 665-675 and Annex

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FORM PTO 1449 (modified)

ATTY DOCKET NO.  
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09/686,466U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
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Mitsuaki OSHIMA et al.FILING DATE  
October 12, 2000GROUP  
2634

Date Submitted to PTO: March 23, 2005

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	3,824,548	7-16-74	Sullivan et al.			
	AB	3,959,726	5-25-76	Hinoshita et al.			
	AC	4,303,939	12-1-81	Stephens et al.			
	AD	4,303,941	12-1-81	Marti et al.			
	AE	4,309,726	1-5-82	Tanaka et al.			
	AF	4,535,352	8-85	Haskell			
	AG	4,564,858	1-14-86	Resch			
	AH	4,581,639	4-8-86	Judge			
	AI	4,769,819	9-6-88	Matsutani et al.			
	AJ	4,794,447	12-27-88	Tsinberg			
	AK	4,817,192	3-28-89	Phillips et al.			
	AL	5,029,003	7-91	Jonnalagadda			
	AM	5,134,464	7-28-92	Basile et al.			
	AN	5,400,084	3-21-95	Scarpa			
DH	AO	5,214,656	5-25-93	Chung et al.			

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DH	AP	3-48587	3-1-91	Japan			abstract

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

DH	AQ	Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991					
DH	AR	Ryutaro OHMOTO et al., "π/4-shift QPSK Subcarrier Transmission", 1991					

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DATE CONSIDERED

09/14/05

## INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
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Date Submitted to PTO: March 23, 2005

ATTY DOCKET NO.  
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09/686,466APPLICANT  
Mitsuaki OSHIMA et al.FILING DATE  
October 12, 2000GROUP  
2634

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	5,181,112	1-19-93	Citta et al.	_____	_____	_____
	AB	5,377,051	12-27-94	Lane et al.	_____	_____	_____
	AC	5,576,902	11-19-96	Lane et al.	_____	_____	_____
	AD	5,218,622	6-8-93	Fazel et al.	_____	_____	_____
	AE	5,561,468	10-1-96	Bryan et al.	_____	_____	_____
	AF	5,598,220	1-97	Citta et al.	_____	_____	_____
	AG	5,802,241	9-1-98	Oshima	_____	_____	_____
	AH	4,800,426	1-24-89	Glenn	_____	_____	_____
DH	AI	5,007,088	4-9-91	Ooi et al.	_____	_____	_____

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
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## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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	AP	
	AQ	

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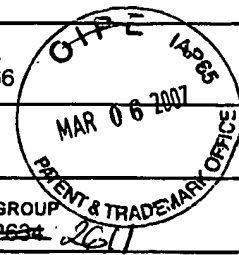
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FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE  
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Date Submitted to PTO: March 6, 2007

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Mitsuaki OSHIMA et al.FILING DATE  
October 12, 2000GROUP  
2634

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/DH/	AA	5,210,770	5-11-93	Rice			
/DH/	AB	5,519,730	5-21-96	Jasper et al.			
	AC						
	AD						
	AE						
	AF						
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	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
/DH/	AJ	3-13145	1-22-91	Japan			abstract	
/DH/	AK	4-322592	11-12-92	Japan			abstract	
/DH/	AL	63-253738	10-20-88	Japan			abstract	
/DH/	AM	62-502932	11-19-87	Japan			abstract	
/DH/	AN	58-107740	6-27-83	Japan			abstract	

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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FORM PTO 1449 (modified)

ATTY DOCKET NO.  
2000\_1422

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09/686,466

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PATENT AND TRADEMARK OFFICE

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APPLICANT  
Mitsuaki OSHIMA et al.

FILING DATE  
October 12, 2000

GROUP  
2634

Date Submitted to PTO: December 31, 2002

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/DH/	AA	4,940,954	7-10-90	Aubert et al.			
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
/DH/	AJ	2-141049	5-30-90	Japan			X
/DH/	AK	2-195732	8-2-90	Japan			abstract
/DH/	AL	5-167633	7-2-93	Japan			abstract
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	AN						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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